(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 August 2009 (13.08.2009)

PCT

(10) International Publication Number
WO 2009/099451 A1

(51) International Patent Classification:
A61K 8/44 (2006.01) *A61K 31/198* (2006.01)
A61Q 11/00 (2006.01) *A61P 1/02* (2006.01)

(21) International Application Number:
PCT/US2008/058658

(22) International Filing Date:
28 March 2008 (28.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/027,432	8 February 2008 (08.02.2008)	US
61/027,420	8 February 2008 (08.02.2008)	US
61/027,431	8 February 2008 (08.02.2008)	US
61/027,442	9 February 2008 (09.02.2008)	US

(71) Applicant *(for all designated States except US)*: **COLGATE-PALMOLIVE COMPANY** [US/US]; 300 Park Avenue, New York, NY 10022 (US).

(71) Applicants and
(72) Inventors: **PRENCIPE, Michael** [US/US]; 39 Spruce Street, Princeton Junction, NJ 08550 (US). **XU, Guofeng** [CN/US]; 40 Silvers Lane, Plainsboro, NJ 08536 (US). **SUBRAMANYAM, Ravi** [US/US]; 18 Doyle Lane, Belle Mead, NJ 08502 (US). **WU, Donghui** [US/US]; 3 Hughes Road, Bridgewater, NJ 08807 (US). **CUMMINS, Diane** [GB/US]; 501 Binghampton Lane, Livingston, NJ 07039 (US). **SULLIVAN, Richard, J.** [US/US]; 26 Brittany Court, Atlantic Highlands, NJ 07716 (US). **SANTARPIA, Ralph, Peter** [US/US]; 71 Woodbury Road, Edison, NJ 08820 (US). **MELLO, Sarita, V.** [BR/US]; 304 Holland Drive, Somerset, NJ 08873 (US). **ZAIDEL, Lynette** [US/US]; 510 Cranford Avenue, Cranford, NJ 07016 (US). **CHOPRA, Suman, K.** [US/US]; 6 Trotter Court, Monroe, NJ 08831 (US). **WANG, Qin** [US/US]; 50 Monica Way, Monmouth Junction, NJ 08852 (US). **TAMBS, Gary, Edward** [US/US]; 41 Beverly Drive, Belle Mead, NJ 08502 (US). **BARNES, Virginia, Monsul** [US/US]; 115 Back Brook Road, Ringoes, NJ 08551 (US). **MORGAN, Andre, M.** [US/US]; 11 Abbington Lane, Robbinsville, NJ 08691 (US). **KOHLI, Rajnish** [GB/US]; 15 Joshua Drive, Hillsborough, NJ 08844 (US). **ROBINSON, Richard, Scott** [US/US]; 51 Ketchum Road, Belle Mead, NJ 08502 (US). **LEITE, Sergio** [BR/US]; 17 Stanford Drive, Kendall Park, NJ 08824 (US). **SIMON, Eric, A.** [US/US]; 280 Michael J. Smith Court, Somerset, NJ 08873 (US).

(74) Agent: **PARK, Ellen, K.**; Colgate-palmolive Company, 909 River Road, Po Box 1343, Piscataway, NJ 08854 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2009/099451 A1

(54) Title: ARGININE SALTS AND THEIR USES FOR THE TREATMENT OF ILLNESSES IN THE ORAL CAVITY

(57) Abstract: The invention relates to novel arginine salts, compositions comprising them, and their uses.